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7-11-96

SUBJECT: Laboratory Treatability Study Report - Halby Chemical Site

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The Report generally provided more information than that presented in the Summary, i.e., the autoignition temperature of CS<sub>2</sub> is 100C, that sodium percarbonate contained H<sub>2</sub>O<sub>2</sub> as part of the reagent, why caustic alone is not desirable (formation of sulfides). Another issue we raised is what is the effect of the oxidation treatment on arsenic mobility (measured by TCLP). The Report indicates a significantly lower leachability of arsenic.

Two other potential new issues are the CS<sub>2</sub> matrix spike recoveries from Halby soil (only used non-Halby soil) and the high HPLC method detection limit for CS<sub>2</sub> (625 mg/kg).

Finally, what is the post-treatment target concentration for thiocyanate? If a low concentration is required, will additional treatment be required (i.e., photolysis or hydrolysis)?